In the Specification

Please replace the paragraph found on page 23, lines 12-31 of the specification with the following paragraph:

In one embodiment of the invention, isolated MPCs from a patient are assayed for expression of a large number of genes. The gene expression profile is projected into a profile of gene set expression values according to the definition of gene sets. A reference database containing a number of reference projected profiles is also created from the isolated MPCs of patients with known states, such as normal and various leukemic disease states. The projected profile is then compared with the reference database containing the reference projected profiles. If the projected profile of the patient matches best with the profile of a particular disease state in the database, the patient is diagnosed as having such disease state. Various computer systems and software, see Example 5, can be utilized for implementing the analytical methods of this invention and are apparent to one of skill in the art. Some of these software programs include Cluster & TreeView (Stanford, URLs: rana.lbl.gov or www.microarray.org), GeneCluster (MIT/Whitehead Institute, URL: MPR/GeneCluster/GeneCluster.html), Array Explorer (SpotFire Inc, URL: http://www.spotfire.com/products/scicomp.asp#SAE) and GeneSpring (Silicon Genetics Inc, URL: http:/www.sigenetics.com/Products/ GeneSpring/index.html) (for computer systems and software, see also U.S. Pat. No. 6,203,987).